SEQUENCE LISTING

- (1) General Information
- (i) APPLICANT: SANTEN PHARMACEUTICAL CO., LTD.
- (ii) TITLE OF INVENTION: Novel Polypeptide Having Water Channel Activity and DNA sequence
- (iii) NUMBER OF SEQUENCES: 2
- (iv) CORRESPONDENCE ADDRESS:
- (A) ADDRESSEE: SANTEN PHARMACEUTICAL CO., LTD.
- (B) STREET: 9 ? 19 Shimoshinjo 3-chome Higashiyodogawa-Ku
- (C) CITY: Osaka
- (D) STATE: Osaka
- (E) COUNTRY: JAPAN
- (F) ZIP: 533-0021
- (v) COMPUTER READABLE FORM:
- (A) MEDIUM TYPE: Diskette, 3.5 inch, 1.44 MB, storage
- (B) COMPUTER: IBM PS/2 or compatibles
- (C) OPERATING SYSTEM: WINDOWS 95/97
- (D) SOFTWARE: Microsoft Word 97
- (vi) CURRENT APPLICATION DATE:
 - (A) APPLICATION NUMBER: 09/381,810
- (B) FILING DATE: 19-OCT-1999
- (C) CLASSIFICATION: 435
- (vii) PRIOR APPLICATION DATE
- (A) APPLICATION NUMBER: JP09 094845
- (B) FILING DATE: 28-MAR-1997
- (viii) ATTORNEY/AGENT INFORMATION:
- (A) NAME: Burton A. Amernick
- (B) REGISTRATION NUMBER: 24852
- (C) REFERENCE/DOCKET NUMBER: 1581/00156
- (ix) TELECOMMUNICATION INFORMATION:
- (A) TELEPHONE: (202)331-7111
- (B) FAX: (202)293-6229
- (2) INFORMATION FOR SEQ ID NO: 1:
- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH F342 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY F linear
- (ii) MORECULE TYPE F peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
- Met Val Gln Ala Ser Gly His Arg Arg Ser Thr Arg Gly Ser Lys Met
- Val Ser Trp Ser Val Ile Ala Lys Ile Gln Glu Ile Leu Gln Arg Lys
 20 25 30
- Met Val Arg Glu Phe Leu Ala Glu Phe Met Ser Thr Tyr Val Met Met
- Val Phe Gly Leu Gly Ser Val Ala His Met Val Leu Asn Lys Lys Tyr
- Gly Ser Tyr Leu Gly Val Asn Leu Gly Phe Gly Phe Gly Val Thr Met 65 70 75 80
- Gly Val His Val Ala Gly Arg Ile Ser Gly Ala His Met Asn Ala Ala 85 90 95
- Val Thr Phe Ala Asn Cys Ala Leu Gly Arg Val Pro Trp Arg Lys Phe

			100										110		
		115	Val				120					125			
Thr	Ile 130	Tyr	Ser	Leu	Phe	Tyr 135	Thr	Ala	Ile	Leu	His 140	Phe	Ser	Gly	Gly
145			Val		150					155					160
Tyr	Leu	Pro	Asp	His 165	Met	Thr	Leu	Trp	Arg 170	Gly	Phe	Leu	Asn	Glu 175	Ala
_			Gly 180					185					190		
		195	Pro				200					205			
Leu	Val 210	Val	Ile	Ile	Gly	Val 215	Ser	Leu	Gly	Met	Asn 220	Thr	Gly	Tyr	Ala
Ile 225		Pro	Ser	Arg	Asp 230	Leu	Pro	Pro	Arg	Ile 235	Phe	Thr	Phe	Ile	Ala 240
	Trp	Gly	Lys	Gln 245	Val	Phe	Ser	Asn	Gly 250	Glu	Asn	Trp	Trp	Trp 255	Val
Pro	Val	Val	Ala 260	Pro	Leu	Leu	Gly	Ala 265	Tyr	Leu	Gly	Gly	Ile 270	Ile	Tyr
Leu	Val	Phe 275	Ile	Gly	Ser	Thr	Ile 280	Pro	Arg	Glu	Pro	Leu 285	Lys	Leu	Glu
Asp	Ser 290		Ala	Tyr	Glu	Asp 295		Gly	Ile	Thr	Val 300	Leu	Pro	Lys	Met
Gly 305	Ser	His	Glu	Pro	Thr 310	Ile	Ser	Pro	Leu	Thr 315	Pro	Val	Ser	Val	Ser 320
		Asn	Arg	Ser 325		Val	His	Pro	Ala 330		Pro	Leu	His	Glu 335	Ser
Met	Ala	Leu	Glu 340	His	Phe										
(2)	TNIE	$\triangle M \Delta$	TTOM	₽ ∩₽	SEO	TD.	No F	2							

- (2) INFORMATION FOR SEQ ID No F2
- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH F1258 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY F linear
 - (ii) MOLECULE TYPE: cDNA to mRNA
 - (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
 - (B) TISSUE TYPE: fat tissue
 - (ix) FEATURE:
 - (A) NAME/KEY: exon
 - (B) LOCATION F173..1198
 - (C) IDENTIFICATION METHOD: by experiment
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

GGCTCTGGAC TGGGGACACA GGGATAGCTG AGCCCCAGCT GGGGGTGGAA GCTGAGCCAG GGACAGTCAC GGAGGAACAA GATCAAGATG CGCTGTAACT GAGAAGCCCC CAAGGCGGAG 120 GCTGAGAATC AGAGACATTT CAGCAGACAT CTACAAATCT GAAAGACAAA AC ATG GTT Met Val

CAA GCA TCC GGG CAC AGG CGG TCC ACC CGT GGC TCC AAA ATG GTC TCC Gln Ala Ser Gly His Arg Arg Ser Thr Arg Gly Ser Lys Met Val Ser

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	TCC Ser 20											274
	GAG Glu				TTC			GTC				322
GGC	CTT Leu			GCC			AAT				AGC	370
	CTT Leu											418
	GTG Val											466
	GCT Ala 100											514
	GTG Val											562
	AGT Ser											610
	GTG Val											658
	GAT Asp											706
	GGG Gly 180											754
	CCA Pro				ACA							802
GTC	ATC Ile											850
	TCC Ser		CTG									898
	AAA Lys											946
	GCA Ala 260											994
	ATT Ile											1042
GTG	GCG Ala			CAC							TCT	1090
	GAA Glu									Pro		1138

AAC	AGA	TCT	TCA	GTC	CAC	CCT	GCC	CCA	CCC	TTA	CAT	GAA	TCC	ATG	GCC	1186
Asn	Arg	Ser	Ser	Val	His	Pro	Ala	Pro	Pro	Leu	His	Glu	Ser	Met	Ala	
		325					330					335				
CTA	GAG	CAC	TTC	TAAC	GCAGA	AGA :	TAT	TTGT	SA TO	CCAT	rcca:	r TC	CCCA	AATA		1238
Leu	Glu	His	Phe													
	340															
AGCAAGGCTT GTCCGACAAA												1258				